

IN THE CLAIMS

Claims 1, 7, 15, and 20-22 are amended to read as follows:

1. (Amended) A system for minimizing the loss of information in cordless communications, comprising:

a first data station having control logic, the control logic operable to:

establish a plurality of individual communication channels needed to transmit information between the first data station and a second data station, each of the channels associated with a unique channel frequency; select a first unique channel frequency to be used for the first channel between the two data stations; access a plurality of frequency sets, each frequency of a frequency set corresponding to a channel; determine parameters relating to a spectral separation between each of the channels, the spectral separation describing a separation between a pair of unique channel frequencies associated with the channels; and select unique channel frequencies for the remainder of the plurality of channels in response to the determined parameters by selecting a frequency from each frequency set, each pair of unique channel frequencies having a spectral separation; and

response logic residing in the second data station, the response logic operable to receive the information from the first data station on the plurality of communication channels.

7. (Amended) A method for minimizing the loss of information in cordless communications, comprising:

a) establishing a plurality of individual communication channels between at least two data stations, and accessing a plurality of frequency sets, each frequency of a frequency set corresponding to a channel;

b) selecting a first unique carrier frequency to be used for the first of the plurality of channels;

c) determining parameters relating to achieving a maximum throughput of information over the channels between the data stations; and

d) selecting additional unique carrier frequencies to be used for the remainder of the plurality of channels, in response to the determined parameters by selecting a frequency from each frequency set.

15. **(Amended)** A method for minimizing the loss of information in cordless communications, comprising:

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- a) providing at least two data stations having a plurality of communication channels to transmit information between the data stations, and accessing a plurality of frequency sets, each frequency of a frequency set corresponding to a channel;
 - b) determining a first unique carrier frequency for the first of the channels between the data stations;
 - c) determining parameters relating to a spectral separation required for the next one of the channels, the spectral separation describing a separation between a pair of carrier frequencies associated with the channels;
 - d) repeating the steps of determining a first unique carrier frequency and determining parameters for another channel; and
 - e) selecting unique carrier frequencies for the remainder of the plurality of channels in response to the determined parameters by selecting a frequency from each frequency set, each pair of unique carrier frequencies having a spectral separation.

20. **(Amended)** The method of Claim 15, wherein steps (b)-(e) are performed at regular intervals of time.

21. **(Amended)** An apparatus for minimizing the loss of information in cordless communications comprising control logic, the control logic operable to:

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- select a first unique channel frequency associated with one of a plurality of communication channels;
 - access a plurality of frequency sets, each frequency of a frequency set corresponding to a channel;
 - determine one or more parameters relating to a spectral separation between at least two of the channels, the spectral separation describing a separation between a pair of unique channel frequencies associated with the channels; and
 - select at least one unique channel frequency for the remainder of the plurality of channels using the one or more determined parameters by selecting a frequency from each frequency set, each pair of unique channel frequencies having a spectral separation.

22. (Amended) An apparatus for minimizing the loss of information in cordless communications comprising control logic, the control logic operable to:

select a first unique channel frequency associated with one of a plurality of communication channels;

access a plurality of frequency sets, each frequency of a frequency set corresponding to a channel;

determine one or more parameters relating to achieving a maximum throughput of information over the channels; and

select at least one unique channel frequency for the remainder of the plurality of channels using the one or more determined parameters by selecting a frequency from each frequency set.

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